

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing Of Claims:**

1. (Withdrawn) An antimicrobial composition, comprising a combination of a carbohydrate and an microbial agent.
2. (Currently Amended) The composition of claim 46, wherein said carbohydrate originates from chitan chitin.
3. (Currently Amended) The composition of claim 26, wherein said carbohydrate is poly-N-acetylglucosamine acetylglucosamine-glucosamine.
4. (Currently Amended) The composition of claim 46, wherein said antimicrobial agent is a broad spectrum antibiotic.
5. (Currently Amended) The composition of claim 46, wherein said antimicrobial agent is pyrithione.
6. (Currently Amended) An antimicrobial composition having the following structural formula:  
[(NAGA)<sub>x</sub>(GA)<sub>y</sub>(PR)<sub>z</sub>]<sub>N</sub>

Wherein x is from about 0.01 to 0.3 at least about 0.15, y is from about 0.3 to about 0.98 and z is from about 0.01 to about 0.3 molar fractions;

Wherein  $x+y+z \sim 1$ , and N has a value between about 10 and about 100; and

Wherein the molecular weight of the antimicrobial composition is in the range of about 20 kDa to about 80 kDa.

7. (Canceled) The composition of claim 6, wherein said composition has a molecular weight in the range of about 1 kDa to about 150 kDa.

8. (Currently Amended) The composition of claim 4G, wherein said composition further comprises between about 0.1% to about 1% of decyl polyglucose.

9. (Currently Amended) A method for treating a dermatological condition, comprising administering to a subject in need thereof an effective amount of a composition having N-acetyl-glucosamine-glucosamine-pyruvione,the following structural formula:



Wherein x is from about 0.01 to 0.3 at least about 0.15, y is from about 0.3 to about 0.98 and z is from about 0.01 to about 0.3 molar fractions,

Wherein  $x+y+z \sim 1$ , and N has a value between about 10 and about 100; and

Wherein the composition has a molecular weight in the range of about 20 kDa to about 80 kDa.

10. (Currently Amended) The method of claim 9, wherein said dermatological condition is acne or candida or Trichomonas.

11. (Previously Presented) The method of claim 10, wherein said effective amount for treating said acne is 0.1 mg/mL.

12. (Previously Presented) The method of claim 10, wherein said effective amount for treating said candida is from about 0.05 to about 0.7 microgram / mL.

13. (Previously Presented) The method of claim 9, wherein said method further comprises between about 0.01% to about 1% of decyl polyglucose.

14. (Previously Presented) The method of claim 9, wherein said composition is topically applied to an afflicted region of said subject.

15. (Currently Amended) A method for treating a dermatological condition comprising administering to a subject in need an effective amount of a composition having N-acetyl-glucosamine-glucosamine-pyridinone the following structural formula:



Wherein x is from about 0.01 to 0.3 at least about 0.15, y is from about 0.3 to about 0.98 and z is from about 0.01 to about 0.3 molar fractions;

Wherein x+y+z ~ 1, and N has a value between about 1 and about 100; and

Wherein the molecular weight of the composition is in the range of about 20 kDa to about 80 kDa.

16. (New) The method of claim 10, wherein said effective amount for treating said Trichomonas is from about 2.5 to 5 grams / mL.